



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **10088312 A**(43) Date of publication of application: **07.04.98**

(51) Int. Cl.

C23C 4/10
F02F 5/00
F16J 9/26

(21) Application number: **08248210**(22) Date of filing: **19.09.96**(71) Applicant: **NIPPON PISTON RING CO**
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TAKAMURA HIROYUKI
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HASHIMOTO HIROYUKI(54) **WEAR RESISTANT SPRAY COATING LAYER OF
SLIDING MEMBER**

(57) Abstract:

PROBLEM TO BE SOLVED: To improve wear resistance and scuffing resistance of a sliding member.

SOLUTION: On the sliding face in the outer circumference of the base metal M of a piston ring 10 as a sliding member, a sprayed coating layer C composed of 60 to 90wt.% primary material as nickel base sliding face material contg. Cr, W and Mo and 10 to 40wt.% secondary material composed of either or both of Cr₂O₃ and MoO₃ added with 1 to 7% SiO₂ is formed by high velocity oxygen flame (HVOF) thermal spraying.

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